



Delightful light.

No compromise: HALOGEN ECO lamps offer exceptional quality of light, and thanks to their longer life are more eco-friendly than incandescent lamps or standard halogen lamps.

 **HALOGEN
ECO**

SEE THE WORLD IN A NEW LIGHT

OSRAM



Put ordinary lamps in the shade. Direct replacements and exceptional quality of light.

Thanks to OSRAM there are now 100 % direct replacements for old incandescent lamps in good time before they are banned throughout Europe. HALOGEN ECO “CLASSIC LIGHT” lamps with screw bases are full alternatives to conventional incandescent lamps – and HALOGEN ECO “BRILLIANT LIGHT” lamps are one-for-one replacements for standard halogen lamps with pin or plug bases. Innovative ECO halogen lamps provide a very attractive warm light with excellent color rendering – but are more eco-friendly and more durable than their conventional counterparts.

HALOGEN ECO.
Clear benefits:
 Simple replacement. Exceptional quality of light. Eco-friendly.

- Direct replacements and easy to install: the same dimensions as corresponding standard lamps
- Absolutely natural color rendering: color rendering index $R_a = 100$
- Warm pleasant light like that of an incandescent lamp with color temperatures of 2700 to 3100 K
- 100 % stepless dimming on any commercially available dimmer
- Instant light with no visible startup time (< 1 second)
- Twice the life: less maintenance than corresponding standard lamps
- No mercury: simple disposal with ordinary household waste



GOOD color rendering ($R_a = 80 - 90$) is offered by other alternatives to incandescent lamps in addition to their own specific benefits.



BEST – absolutely natural – color rendering ($R_a = 100$) is the special strength of HALOGEN lamps.



HALOGEN ECO CLASSIC A

DECOSTAR® ECO

The switch to lumens.

Why lumens instead of watts? As incandescent lamps disappear from the market it will no longer make sense to use the watt as a reference value for the light output of a lamp. Modern lamp technologies need very different amounts of power to produce the same light output. It is therefore more appropriate to indicate the luminous flux in lumen (lm). This unit is defined as all the light emitted from a light source in all directions. The brightness of different lamp technologies can therefore be easily compared. For reflector lamps the luminous intensity in candela (cd) is given instead of lumen. This unit indicates the luminous flux radiated in a particular direction.

What are the benefits of indicating brightness in lumen?

- More accurate indication of the light output of a lamp
- Better comparison between different types of lamps and technologies
- Greater transparency for selecting appropriate replacements for conventional incandescent lamps

Let's assume your old 60 W incandescent lamp provides 710 lumen.

You can choose either a HALOGEN CLASSIC A ECO at 42 W/630 lumen (a little darker) or the same model at 53 W/840 lumen (a little brighter).



Best feel-good quality of light. HALOGEN ECO with CLASSIC LIGHT.

The direct alternative to the incandescent lamp.

- Pleasant light with a feel-good factor
- E27 and E14 screw bases
- Color temperature approx. 2700 K
- Attractive familiar shapes: bulb, candle, round and spot
- Life of 2000 hours



Best brilliant quality of light. HALOGEN ECO with BRILLIANT LIGHT.

The specialists for all traditional halogen applications.

- Brilliant accent light with optimum color rendering
- Even greater quality of light from low-voltage versions
- All standard pin/plug base types*
- Color temperatures of 2700 K to 3100 K
- Life of 2000 hours to 5000 hours

* GU5,3/G53/G4/GY6,35/G9/R7s/GU10





General benefits of “CLASSIC LIGHT”.

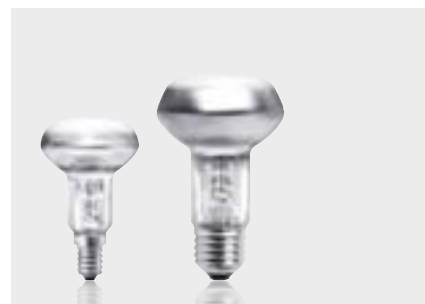
- 100 % direct replacement for incandescent lamps
- Same perception of light as for classic incandescent lamps
- Average life of 2000 hours
- Color temperature approx. 2700 K
- Perfect color rendering ($R_a = 100$)
- 100 % dimming on conventional dimmers
- Much more eco-friendly thanks to lower power consumption and twice the life of conventional incandescent lamps
- Same dimensions



HALOGEN CLASSIC A ECO
Halogen in the classic shape of the incandescent lamp.



HALOGEN CLASSIC B, BW UND P ECO
Halogen lamps in classic candle and round shapes.



HALOGEN SPOT R50 und R63 ECO
Halogen lamps in spotlight shape.

Standard incandescent lamp		HALOGEN ECO CLASSIC A
20 W	→	18 W
35 W	→	28 W
55 W	→	42 W
70 W	→	53 W
92 W	→	70 W
135 W	→	105 W

- Classic shape of the incandescent lamp for a wide variety of applications
- E27 screw base

Standard incandescent lamp in candle shape		HALOGEN ECO CLASSIC BW
35 W	→	28 W

Standard incandescent lamp in candle shape		HALOGEN ECO CLASSIC B
20 W	→	18 W
35 W	→	28 W
55 W	→	42 W

Standard incandescent in round shape		HALOGEN ECO CLASSIC P
20 W	→	18 W
33 W	→	28 W
52 W	→	42 W

- Ideal for decorative luminaires
- E14 screw base (HALOGEN CLASSIC P ECO also available in E27)

Standard incandescent lamp as a spotlight		HALOGEN ECO SPOT R50
40 W	→	28 W

Standard incandescent lamp as a spotlight		HALOGEN ECO SPOT R63
60 W	→	42 W

- Classic shape of standard spotlight lamps
- E14 (R50) and E27 (R63) screw bases



General benefits of “BRILLIANT LIGHT” for high voltage.

- 100 % direct replacement for standard halogen lamps
- Same perception of light as for classic HV halogen lamps
- Average life of 2000 hours
- Perfect color rendering ($R_a = 100$)
- Much lower CO₂ emissions compared with corresponding standard halogen lamps
- Lower thermal output
- No transformer required
- Fully dimmable



HALOPAR® 16 ECO
The OSRAM HALOPAR® ECO for line voltage.



HALOLINE® ECO
Slimline classic for inside and outside.



HALOPIN® ECO
Our smallest lamp for line voltage.

OSRAM HALOPAR® Standard	OSRAM HALOPAR® 16 ECO
35 W →	28 W
50 W →	40 W

- With whole glass reflector for brilliant lighting effects
- Innovative bulb pinch technology for the burner and with integrated fuse function; complies with the safety requirements of IEC 60432-2
- Approved for use in open luminaires (to IEC 60598-1)
- Color temperature approx. 2800 K
- GU10 base

HALOLINE® Standard 74,9 mm	HALOLINE® ECO
60 W →	48 W
100 W →	80 W
150 W →	120 W

HALOLINE® Standard 114,2 mm	HALOLINE® ECO
150 W →	120 W
200 W →	160 W
300 W →	230 W
500 W →	400 W

- Ideal for emphasizing and accentuating the structure of a room
- Can be plugged in anywhere
- Innovative bulb pinch technology for the burner
- Color temperature approx. 3000 K
- R7s base

HALOPIN® Standard	HALOPIN® ECO
25 W →	20 W
40 W →	33 W
60 W →	48 W
75 W →	60 W

- Extremely compact dimensions
- Robust filament design thanks to innovative, unique bulb pinch technology
- Complies with IEC 60432-2 thanks to integrated fuse function
- Approved for use in open luminaires (to IEC 60598-1)
- Simple handling thanks to G9 plug-in base/holder system
- Color temperature approx. 2800 K
- G9 base



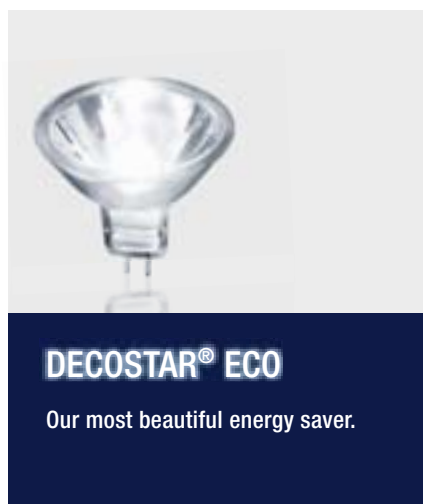
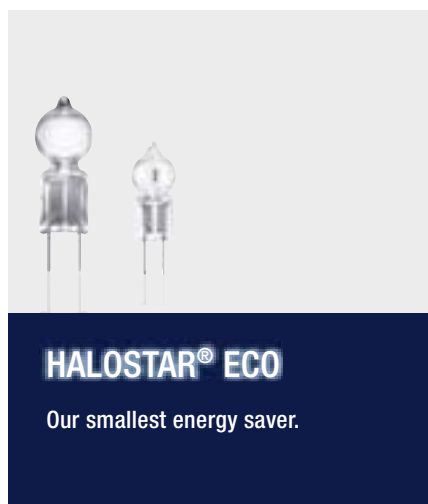
HALOLUX CERAM® ECO
Bulb-shaped halogen lamps.

- More compact than standard incandescent lamps
- Available in a higher wattages up to 205 W
- UV filter



General benefits of “BRILLIANT LIGHT” for low voltage.

- Same perception of light as for classic LV halogen lamps
- Long average life of at least 4000 hours
- Much lower CO₂ emissions compared with corresponding standard halogen lamps
- Lower thermal output
- Fully dimmable



Standard pin-base lamp		HALOSTAR® ECO
10 W	→	7 W G4
20 W	→	14 W G4
35 W	→	25 W GY6.35
50 W	→	35 W GY6.35
75 W	→	50 W GY6.35
90 W	→	60 W GY6.35

Standard dichroic reflector lamp		DECOSTAR® ECO
20 W	→	14 W
35 W	→	20 W
50 W	→	35 W
65 W	→	50 W

Standard 111-Lampe		HALOSPOT® 111 ECO
50 W	→	35 W
75 W	→	50 W
100 W	→	60 W

- High luminous efficacy of up to 26 lm/W
- Meets IEC 60598 requirements. Can be used in free-burning applications in open luminaires thanks to low-pressure design
- Axial filament for optimum directional light
- Gold-plated/platinized base pins for corrosion protection
- Color temperature approx. 3000 K
- G4 and GY6.35 bases

- Direct replacements for standard dichroic reflector lamps
- Extra long average life of 5000 hours
- Constant luminous intensity and constant color location throughout the life of the lamp thanks to the longlife coating
- Integrated shield so the lamps can be used in open luminaires to IEC 60598-1
- GU5.3 base

- Better quality lighting thanks to optimum illumination and reduced scatter
- More light thanks to precision-engineered shape and greater reflectance
- Loss of light due to dirt and impurities is reduced thanks to a smoother reflector surface
- Cap for reduced glare and ease of handling
- Meets IEC 60598 requirements. Can be used in free-burning applications in open luminaires thanks to low-pressure design
- Color temperature approx. 3000 K
- G5.3 base



OSRAM Guarantee.

OSRAM low-voltage-halogen lamps can be operated with perfect results with the appropriate HALOTRONIC® control gear from OSRAM. In combination with HALOTRONIC® you get a 5 year guarantee on the ECG and 1 year on HALOGEN ECO lamps from OSRAM – HALOSTAR® ECO/STARLITE, DECOSTAR® ECO/TITAN and HALOSPOT® ECO – (after registering the system and under certain conditions of use; for terms and conditions and information on registration go to www.osram.com/system-guarantee).

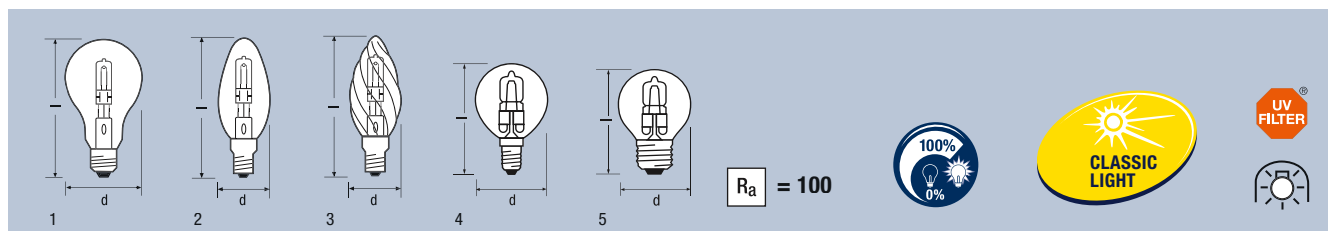
For product overviews and possible applications for OSRAM halogen lamps and more tips and advice for your lighting solutions go to:

• www.osram.com/hal and

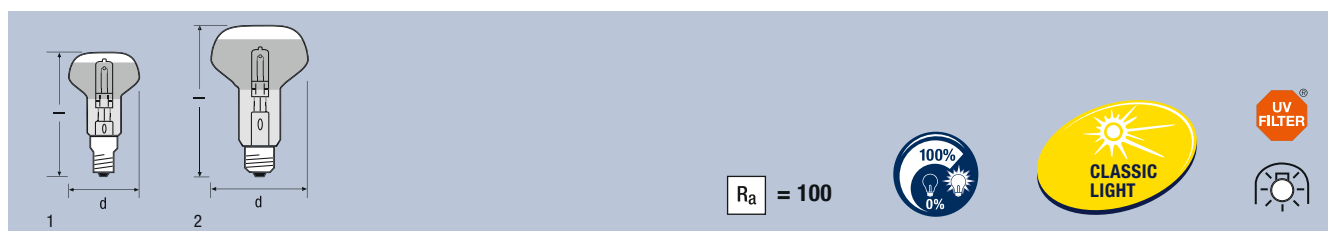
• www.osram.com/light-a-home



TECHNICAL DATA

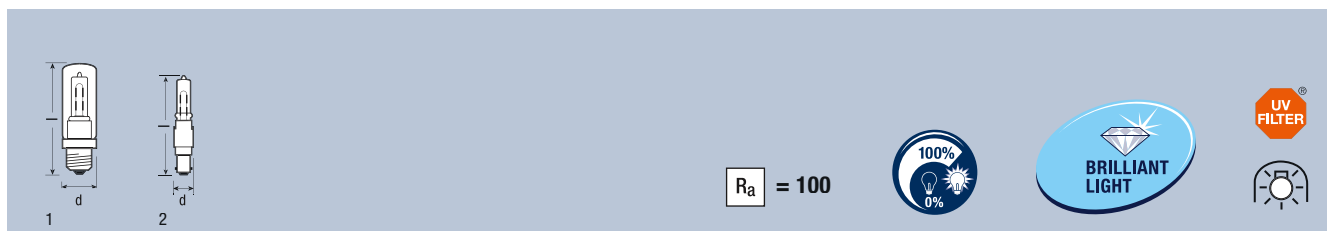


Product reference	Product number (EAN)		W	lm	K	t [h] [*]		l [mm]	d max. [mm]	LCL a [mm]
HALOGEN CLASSIC A ECO										
64541 ECO A	4008321927163	D	18	170	2700	2000	E27	96	55	73
64542 ECO A	4008321211828	D	28	345	2700	2000	E27	96	55	73
64543 ECO A	4008321212078	C	42	630	2700	2000	E27	96	55	73
64544 ECO A	4008321927187	C	53	840	2800	2000	E27	96	55	73
64547 ECO A	4008321927200	C	70	1200	2800	2000	E27	96	55	73
64548 ECO A	4008321928153	C	105	1900	2900	2000	E27	96	55	73
HALOGEN CLASSIC B ECO										
64541 ECO B	4008321927286	D	18	170	2700	2000	E14	104	35	71
64542 ECO B	4008321212153	D	28	345	2700	2000	E14	104	35	71
64543 ECO B	4008321927309	C	42	630	2700	2000	E14	104	35	71
HALOGEN CLASSIC BW ECO										
64542 ECO BW	4008321927385	D	28	345	2700	2000	E14	104	35	71
HALOGEN CLASSIC P ECO with base E14										
64541 ECO P	4008321927446	D	18	160	2700	2000	E14	80	45	60
64542 ECO P	4008321927460	D	28	320	2700	2000	E14	80	45	60
64543 ECO P	4008321927484	D	42	580	2700	2000	E14	80	45	60
HALOGEN CLASSIC P ECO with base E27										
64541 ECO P	4008321927569	D	18	160	2700	2000	E27	74	45	60
64542 ECO P	4008321927583	D	28	320	2700	2000	E27	74	45	60
64543 ECO P	4008321927606	D	42	580	2700	2000	E27	74	45	60

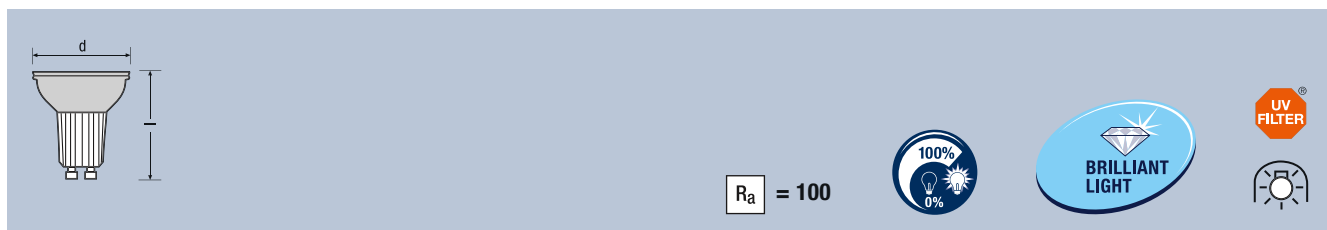


Product reference	Product number (EAN)		W	cd	K	t [h] [*]		l [mm]	d max. [mm]	LCL a [mm]
HALOGEN SPOT R50 ECO										
64545 R50 ECO	4008321212115	—	28	410	2700	2000	E14	85	50	—
HALOGEN SPOT R63 ECO										
64546 R63 ECO	4008321212139	—	42	765	2700	2000	E27	105	63	—

* Average life according to IEC 60357.



Product reference	Product number (EAN)		W	lm	K	t (h) *		l (mm)	d max. (mm)	LCL a (mm)
HALOLUX CERAM® ECO with base E27										
NEW 64400 ECO 230 V	4008321393821	C	70	1180	2800	2000	E27	105	32	75
NEW 64401 ECO 230 V	4008321393845	C	100	1800	2900	2000	E27	105	32	75
NEW 64402 ECO 230 V	4008321393869	C	150	2870	2900	2000	E27	105	32	75
NEW 64404 ECO 230 V	4008321393883	C	205	4200	3000	2000	E27	105	32	75
HALOLUX CERAM® ECO with base B15d										
NEW 64491 ECO 230 V	4008321393319	C	40	590	2700	2000	B15d	67	17,9	39
NEW 64492 ECO 230 V	4008321393708	C	60	980	2800	2000	B15d	67	17,9	39
NEW 64406 ECO 230 V	4008321393722	C	60	980	2800	2000	B15d	80	17,9	55
NEW 64494 ECO 230 V	4008321393746	C	70	1180	2800	2000	B15d	80	17,9	55
NEW 64496 ECO 230 V	4008321393760	C	100	1800	2900	2000	B15d	86	17,9	55
NEW 64498 ECO 230 V	4008321393784	C	150	2870	2900	2000	B15d	86	17,9	55
NEW 64499 ECO 230 V	4008321393807	C	205	4200	3000	2000	B15d	98	17,9	67



Product reference	Product number (EAN)		W	cd	V	t (h) *		l (mm)	d max. (mm)	LCL a (mm)
OSRAM HALOPAR® ECO										
NEW 64819 ECO FL	4008321927767	-	28	570	230	2000	GU10	51	55	-
64823 ECO FL	4008321208767	-	40	900	230	2000	GU10	51	55	-

ECGs FOR LOW-VOLTAGE HALOGEN LAMPS

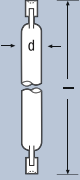
Product reference	Product number (EAN)	V	A	Hz	W min.-max.
HALOTRONIC MOUSE®, compact design					
HTM 70/230-240**	4050300442310	230 V -10%/240 V+6 %	0,27	50...60	20-70
HTM 105/230-240**	4050300442334	230 V -10%/240 V+6 %	0,41	50...60	35-105
HTM 150/230-240**	4050300581415	230 V -10%/240 V+6 %	0,57	50...60	50-150
HTN 75/230-240***	4008321073037	230 V -10%/240 V+6 %	0,32	50...60	20-75
HTN 75/230-240S***	4008321909329	230 V -10%/240 V+6 %	0,32	50...60	20-75
HALOTRONIC® L, long design					
HTL 105/230-240**	4008321927019	230 V -10%/240V+6 %	0,44	0,50...60	35-105
HTL 225/230-240**	4008321927026	230 V -10%/240V+6 %	0,90	0,50...60	50-225

* Average life according to IEC 60357.




** Can be dimmed with trailing-edge and leading-edge phase dimmers for inductive loads.



*** Can be dimmed with trailing-edge phase dimmers.

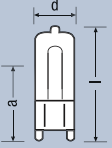
TECHNICAL DATA






$R_a = 100$







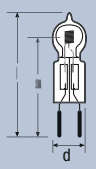
Product reference	Product number (EAN)		W	lm	V	t (h) *		l (mm)	d max. (mm)	LCL a (mm)
HALOLINE® ECO										
NEW 64684 ECO	4008321928054	C	48	750	230	1000	R7s	12	74,9	–
64690 ECO	4008321928078	C	80	1400	230	2000	R7s	12	74,9	–
64695 ECO	4008321928092	C	120	2250	230	2000	R7s	12	74,9	–
NEW 64696 ECO	4008321928115	C	120	2250	230	1000	R7s	12	114,2	–
NEW 64698 ECO	4008321928139	C	160	3100	230	1000	R7s	12	114,2	–
64701 ECO	4008321207692	C	230	5000	230	2000	R7s	12	114,2	–
64702 ECO	4008321207715	C	400	9000	230	2000	R7s	12	114,2	–






$R_a = 100$







Product reference	Product number (EAN)		W	lm	V	t (h) *		l (mm)	d max. (mm)	LCL a (mm)
HALOPIN® ECO										
NEW 66720 ECO	4008321945273	D	20	200	230	2000	G9	14	43	22
NEW 66733 ECO	4008321208668	C	33	460	230	2000	G9	14	43	22
66748 ECO	4008321945334	C	48	740	230	2000	G9	14	51	24
NEW 66760 ECO	4008321945372	C	60	980	230	2000	G9	14	51	24

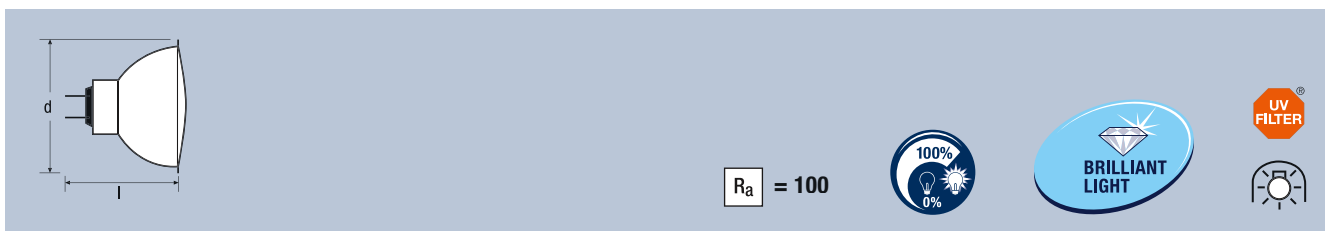


$R_a = 100$

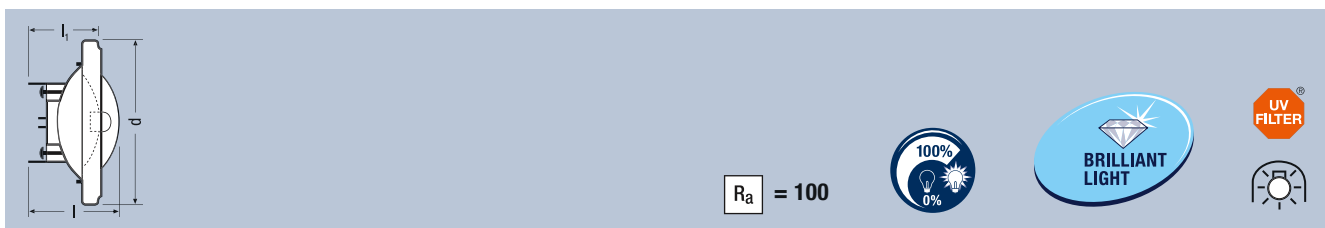




Product reference	Product number (EAN)		W	lm	V	t (h) *		l (mm)	d max. (mm)	LCL a (mm)
HALOSTAR® ECO										
NEW 64417 ECO	4008321963192	-	7	105	12	4000	G4	10	33	22
NEW 64423 ECO	4008321317964	-	14	240	12	4000	G4	10	33	22
64429 ECO	4050300987262	-	25	500	12	4000	GY6,35	12	44	30
64432 ECO	4050300615905	-	35	860	12	4000	GY6,35	12	44	30
64440 ECO	4050300615936	-	50	1180	12	4000	GY6,35	12	44	30
64447 ECO	4050300785400	-	60	1650	12	4000	GY6,35	12	44	30

* Average life according to IEC 60357.



Product reference	Product number (EAN)		W	cd	V	t (h) *		l (mm)	d max. (mm)	LCL a (mm)
DECOSTAR® 51 ECO										
NEW 48855 ECO SP	4008321945020	-	14	2800	12	5000	GU5.3	51	45	-
NEW 48855 ECO WFL	4008321945044	-	14	480	12	5000	GU5.3	51	45	-
48860 ECO SP	4050300620169	-	20	5500	12	5000	GU5.3	51	45	-
48860 ECO FL	4050300620183	-	20	2000	12	5000	GU5.3	51	45	-
48860 ECO WFL	4050300620206	-	20	1000	12	5000	GU5.3	51	45	-
48860 ECO VWFL	4050300620220	-	20	450	12	5000	GU5.3	51	45	-
48865 ECO SP	4050300516592	-	35	11000	12	5000	GU5.3	51	45	-
48865 ECO FL	4050300516615	-	35	4100	12	5000	GU5.3	51	45	-
48865 ECO WFL	4050300516639	-	35	2200	12	5000	GU5.3	51	45	-
48865 ECO VWFL	4050300516653	-	35	1050	12	5000	GU5.3	51	45	-
48870 ECO SP	4050300516677	-	50	15000	12	5000	GU5.3	51	45	-
48870 ECO FL	4050300516691	-	50	5300	12	5000	GU5.3	51	45	-
48870 ECO WFL	4050300516714	-	50	2850	12	5000	GU5.3	51	45	-
48870 ECO VWFL	4050300516738	-	50	1450	12	5000	GU5.3	51	45	-



Product reference	Product number (EAN)		W	cd	V	t (h) *		l (mm)	d max. (mm)	LCL a (mm)
HALOSPOT® 111 ECO										
48832 ECO SP	4050300656823	-	35	22500	12	4000	G53	111	67	-
48832 ECO FL	4050300656847	-	35	4200	12	4000	G53	111	67	-
48835 ECO SP	4050300656861	-	50	30000	12	4000	G53	111	67	-
48835 ECO FL	4050300656885	-	50	5500	12	4000	G53	111	67	-
48835 ECO WFL	4008321909237	-	50	2000	12	4000	G53	111	67	-
48837 ECO SP	4050300786070	-	60	42000	12	4000	G53	111	67	-
48837 ECO FL	4050300786094	-	60	7000	12	4000	G53	111	67	-
48837 ECO WFL	4008321909251	-	60	2800	12	4000	G53	111	67	-

* Average life according to IEC 60357.

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